

N.S. SACHS DRY GOODS CO., Ltd Marconi Solving Problems of France are having the coast of that country, metaphorically speaking,

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PROTECTIVE DEVICE.

A highly ingenious apparatus for discharging an electric line of high pressure electrostatic charges, or of those due to lightning, was tested with satisduring the past summer. It consists significant matter in the ordinary way, instruments the inventor regarded with simply of a glass tube about a foot long 'yet it would be a very serious draw- the utmost satisfaction, since they filled with small shot. The shot is treated chemically before use to give it is an indifferent conductor. This tabe between the vessels of the other bel- Marconi has also made some other is provided with metalic cuds and is ligerent. Marconi quickly realized the important discoveries. He now utilizes trolley current, which at once Logins by the apparatus which has been tuned be conducted only on a limited scale to follow along the path made by the to receive it. the shot is enormous and the current blem, by means of variable conductors equally successful, and there is no PORTRAIT

heavy current at 10,000 volts or more sages upon the various receivers are vessels. Apropos of this, Marconi has will follow the parts of switches when obviated. separated to the extent of two or three feet, forming an arc discharge of great ole, because that place is so remote practically to shipping, sothat greater power which will burn up switches and he is safe from interruption, safety may be assured to vessels a and their surroundings in a few moments. To obviate this difficulty some of the earlier switches were made to break the circuit with great rapidity, the moving parts being controlled by springs which would open the switch instantly to a considerable distance. In other types the circuit was broken on both sides of a slate or marble switchboard at once. The modern switches for such work comprise a receptacle filled with oil, in which the switch operates, and a long handle generally of wood, operating it. Oil is a high insulator and it is practically impossible for a destructive arc to form in it. The same principle of oil insulation is also now very generally Floral Designs for Funerals a Specialty. applied to transformers and other ap paratus carrying very heavy voltages.

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(Scientific American)

At the annual gathering of the Brit- Twenty odd miles away across the So-University College, London, addressed Between these two points messages while transmitting messages from this is how several important discovpoint of transmission. This, undoubt- with his synchronizing system, Marcobut it also emphasized very forcibly the capabilities of his device. At Ports-That is, the possibility of one or more telegraphy in connection with the fleet stations reading a message intended and naturally several of these ether

ish Association for the Advancement lent is another station at the souththe gathering upon Wireless Telegra-are being transmitted throughout the phy, and incidentally mentioned that day, almost without cessation, and Boulogne to Dover they were read at eries and improvements have been by Chelmsford some 118 miles from the the inventor. While experimenting edly, was a remarkable performance, ni had several opportunities of proving one drawback which has long occupied mouth the English Admiralty were carthe unremitting attention of Marconi. rying out experiments with wireless

for another. Such a circumstances na- waves crossed Marconi's line of trans-

Wireless Telegraph Station, Kaimuki, Where Messages Were Received Yesterday

turally destroys the privacy of the mes- mission between Poole and the Isle of factory results on several trolley line: sage, and although it is not a very Wight, the effects of which upon his back, in case of war, for one belliger- proved that he had finally surmounted ent to be able to intercept and to read the most perplexing disadvantage of a light coating of lead carbonate, which a message that was being transmitted his system. connected in series, with a spark gap serious nature of this disadvantage, cylindrical tin cans, about five feet in between the line to be protected and and at his station at Poole, in Dorset- height, in lieu of the vertical wires, the ground. To the rapid oscillating shire, England, he has been endeavor- since they furnish more convenient current of high pressure induced on the ing for a long time past to successfully capacities and radiators. He is lengthline by lightning the tube of shot of- synchronize his messages-that is, to ening the distance over which mes fers practically no resistance, and the construct a transmitter, the message sages may be transmitted and aldischarge goes to earth. To the heavy sent from which can be only received though his experiments at Poole can

is at once broken. This action is very and capacities, by the use of which doubt but that many important develsimilar to that of the coherer, or tube certain instruments can only receive opments in ether telegraphy will be of metallic filings, used in wireless certain messages. By his latest system divulged in the near future, Marconi can dispatch from a certain At the present moment Marconi has a When electric currents of large vo! point any number of messages, and sufficiency of work on hand. The North ume at high pressure began to be used each message will be received only by German Lloyd Steamship Company are some years ago great difficulty was en- that receiver that has been synchro- having at present one of his systems incountered in making switches and cir- nized to the transmitter, so that jam- stalled at Berkum (Germany), to be cult-breaking apparatus for them. A ming of words and confusion of mea- used in connection with their fleet of

yet he is confident that when he works

Marconi has set up his station at Po- with a view to applying the system

Manager F. J. Cross at the Kaimuki Station.

communication may be maintained between the vvessels of the French Navy and any point of the mainland, which would play an important part in ease of a war between England and France, could manipulate their troops according to the information received from their battleships, and thus be able to work the land and sea forces hand in hand. Then six stations are being set up in the Hawaiian Islands and will soon be in working order. Many vessels in the English Navy are also having the system installed.

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